

Title (en)
RADIO RECEIVER

Title (de)
FUNKEMPFÄNGER

Title (fr)
RECEPTEUR RADIO

Publication
EP 1284047 B1 20090624 (EN)

Application
EP 01928124 A 20010514

Priority
• GB 0102107 W 20010514
• GB 0011540 A 20000512

Abstract (en)
[origin: EP2012437A2] A method for cancelling a beat frequency in a radio receiver capable of receiving a radio signal, forming a first demodulated signal (8) by mixing a signal derived from the radio signal with a first local oscillator signal (6), and forming a second demodulated signal (9) by mixing a signal derived from the radio signal with a second local oscillator signal (7) having a quadrature relationship with the first local oscillator signal, the method comprising repeatedly performing the steps of: a. determining the modulus of the first demodulated signal; b. determining the modulus of the second demodulated signal; c. comparing the modulus of the first demodulated signal with the modulus of the second demodulated signal; d. determining a quotient by dividing the greater of the moduli of the first demodulated signal and the second demodulated signal by the lesser of the moduli of the first demodulated signal and the second demodulated signal; e. determining a cancellation factor having the value of the reciprocal of the cosine of the arctangent of the quotient; and f. forming a beat cancelled signal by multiplying one of the first and second demodulated signals by the cancellation factor.

IPC 8 full level
H04B 1/30 (2006.01); **H03D 1/04** (2006.01); **H03D 1/06** (2006.01); **H03D 1/22** (2006.01); **H03D 3/00** (2006.01); **H04B 1/12** (2006.01); **H04B 1/16** (2006.01)

CPC (source: EP US)
H03D 1/04 (2013.01 - EP US); **H03D 1/06** (2013.01 - EP US); **H03D 1/2245** (2013.01 - EP US); **H03D 3/007** (2013.01 - EP US); **H04B 1/16** (2013.01 - US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
GB 0422393 D0 20041110; **GB 2403612 A 20050105**; **GB 2403612 B 20050216**; AT E434866 T1 20090715; AU 5498801 A 20011120; CN 100477541 C 20090408; CN 1436405 A 20030813; DE 60139069 D1 20090806; EP 1284047 A2 20030219; EP 1284047 B1 20090624; EP 2007017 A1 20081224; EP 2007017 A3 20111005; EP 2007017 A9 20110928; EP 2012437 A2 20090107; EP 2012437 A3 20090128; EP 2012437 B1 20130911; GB 0011540 D0 20000628; GB 0413485 D0 20040721; GB 2362279 A 20011114; GB 2362279 B 20041229; GB 2399470 A 20040915; GB 2399470 B 20041229; JP 2003533133 A 20031105; JP 4695323 B2 20110608; US 2004091062 A1 20040513; US 7672411 B2 20100302; US RE45443 E 20150331; WO 0186919 A2 20011115; WO 0186919 A3 20021017

DOCDB simple family (application)
GB 0422393 A 20000512; AT 01928124 T 20010514; AU 5498801 A 20010514; CN 01811025 A 20010514; DE 60139069 T 20010514; EP 01928124 A 20010514; EP 08161084 A 20010514; EP 08161093 A 20010514; GB 0011540 A 20000512; GB 0102107 W 20010514; GB 0413485 A 20000512; JP 2001583014 A 20010514; US 201213410091 A 20120301; US 29198402 A 20021112